

## Remarks

Applicant hereby submits this preliminary amendment, and requests that the amendments presented herein be entered before the Examiner's initial review of this application. Specifically, Applicant has amended paragraph [0001] of page 1 of the specification to include the Application Serial Numbers for the concurrently filed U.S. Patent Applications entitled "SYSTEM AND METHOD FOR RENDERING A TEXTURE MAP UTILIZING AN ILLUMINATION MODULATION VALUE", "SYSTEM AND METHOD FOR RENDERING DIGITAL IMAGES HAVING SURFACE REFLECTANCE PROPERTIES," and "SYSTEM AND METHOD FOR SYNTHESIS OF PARAMETRIC TEXTURE MAP TEXTURES." Claims 7 and 8 have been amended herein by replacing "a pre-existing file" with "said pre-existing file." Such amendment is not intended to narrow the scope of the claims to avoid the prior art, but rather such amendment is made solely to more clearly refer to the pre-existing file of claim 4.

Claim 9 has been amended herein by replacing "texture; and" at the end of the claim with "texture." Such amendment is not being made to avoid the prior art or to narrow the scope of claim 9 in any way, but rather such amendment is made solely to correct a grammatical informality.

Claim 10 has been amended herein by replacing "(e)" with "(d)". Claim 10 has further been amended to recite "repeating steps (a)-(c)" rather than "repeating steps (a)-(d)", to properly identify the steps that are being repeated in claim 10. Such amendment is not being made to avoid the prior art or to narrow the scope of claim 10 in any way, but rather such amendment is made solely to clarify the limitation recited in claim 10.

Claim 31 has been amended herein by deleting one of two periods that appeared at the end of the claim. Such amendment is not being made to avoid the prior art or to narrow the scope of claim 31 in any way, but rather such amendment is made solely to correct a typographical error.

No new matter has been added by the amendments presented herein.

Applicant respectfully requests that the Examiner call the below listed attorney if the Examiner believes that such a discussion would be helpful in resolving any remaining problems.

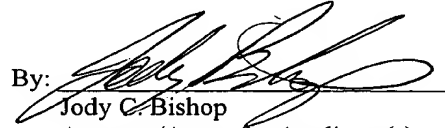
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: September 13, 2001

Typed Name: Gail L. Miller

Signature: Gail Miller

Respectfully submitted,

By: 

Jody C. Bishop  
Attorney/Agent for Applicant(s)  
Reg. No. 44,034  
Date: September 13, 2001  
Telephone No. (214) 855-8007

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 10015867-1

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):     Bradford A. Ritter  
Serial No.:     09/921,464                             Examiner:     Not Assigned  
Filing Date:     August 3, 2001                     Group Art Unit:     Not Assigned  
Title:           SYSTEM AND METHOD FOR PERFORMING TEXTURE SYNTHESIS

VERSION WITH MARKINGS TO SHOW CHANGES MADE

**In the Specification:**

[0001] The present invention is related to co-pending and commonly assigned U.S. Patent Application Serial No. 09/528,700 filed March 17, 2000, entitled "APPARATUS FOR AND METHOD OF RENDERING 3D OBJECTS WITH PARAMETRIC TEXTURE MAPS," concurrently filed and commonly assigned U.S. Patent Application Serial No. [ ] 09/921,477, entitled "SYSTEM AND METHOD FOR RENDERING A TEXTURE MAP UTILIZING AN ILLUMINATION MODULATION VALUE," concurrently filed and commonly assigned U.S. Patent Application Serial No. [ ] 09/921,681, entitled "SYSTEM AND METHOD FOR RENDERING DIGITAL IMAGES WITH SURFACE REFLECTANCE PROPERTIES," and concurrently filed and commonly assigned U.S. Patent Application Serial No. [ ] 09/921,476, entitled "SYSTEM AND METHOD FOR SYNTHESIS OF PARAMETRIC TEXTURE MAP TEXTURES," the disclosures of which are hereby incorporated herein by reference.

**In the claims:**

7. The method of claim 4 wherein said values from [a] said pre-existing file are nearly the desired result but are not tileable.

8. The method of claim 4 wherein said values from [a] said pre-existing file include said at least a portion of values that represent said desired structure, but wherein said matrix having values from said pre-existing file is not readily tileable.

9. The method of claim 1 wherein said executing said texture synthesis process further comprises the steps of:

- (a) selecting a value from said matrix;
- (b) determining a first neighborhood of the selected value from said matrix; and
- (c) comparing said first neighborhood to neighborhoods of said sample texture to determine an optimal value of said sample [texture; and] texture.

10. The method of claim 9 further comprising the step of:

[(e)] (d) repeating steps (a)-[(d)] (c) for each value of said matrix.

31. The system of claim 27 wherein said code for generating further comprises:  
code for determining a first neighborhood of a selected value from said matrix;  
code for comparing said first neighborhood to neighborhoods of said sample texture  
to determine an optimal value of said sample texture; and

code for assigning said optimal value of said sample texture to the selected value of  
said matrix.[.]